Author Index

Abatangelo G *see* Cortivo R, 727
Adam M *see* Štol M, 454
Aebischer P *see* Guenard V, 259
see Fine EG, 775
Aebischer P , Wahlberg L, Tresco PA and Winn SR, Macroencapsulation of dopamine-secreting cells by coextrusion with an organic polymer solution, 50
Akashi A, Matsuya Y and Nagasawa H, Erosion process of calcium hydroxide cements in water, 795
Alexander H *see* Wen S, 479
Alliot-Licht B, Gregoire M, Orly I and Menanteau J, Cellular activity of osteoblasts in the presence of hydroxyapatite. An *in vitro* experiment, 752
Ambrosio L *see* Peluso G, 231
Andreopoulos AG, Papaspyrides CD and Tsilibounidis S, Surface treated polyethylene fibres as reinforcement for acrylic resins, 83
Andrianova MYu *see* Krasovskaya SM, 817
Asano M *see* Fukuzaki H, 433
Atkinson AS *see* Pearson GJ, 658

Badour B *see* Rao T-J, 335
Bakker D *see* van Blitterswijk CA, 187
Bakker WW, van der Lei B, Nieuwenhuis P, Robinson P and Bartels HL, Reduced thrombogenicity of artificial materials by coating with ADPase, 603
Ban S *see* Maruno S, 225
Ban S, Hasegawa J and Maruno S, Electrochemical corrosion behaviour of hydroxyapatite–glass–titanium composite, 205
Bantjes A *see* Brinkman E, 63
see Dekker A, 130
Baquey Ch *see* Dupuy B, 493
Barbon F, Locardi B, Verita M, Gabbi C, Grispigni C, Tranquilli Leali P, Brach del Prever E, Gallinaro P, Cerulli G, Del Bue GL, Lualdi G, Vita Finzi E, Giusti P and Marotti F, Biocompatibility and osteogenetic characteristics of new biocompatible glasses, 565
Bartel R *see* Cooper ML, 243
Bartels HL *see* Bakker WW, 603
Battaglia P *see* Lora S, 275
Bedini L *see* Caiazza S, 474
Beekman AC *see* Goldenberg MS, 267
Belligolli A *see* Biagini G, 281, 287
Bertani A *see* Biagini G, 281, 287
Beugeling T *see* Dekker A, 130
Biagini G, Bertani A, Muzzarelli R, Damadei A, Zucchini C, DiBenedetto G, Belligolli A, Ricotti G and Rizzoli C, Wound management with *N*-carboxybutyl chitosan, 281
Biagini C, Pugnaloni A, Damadei A, Bertani A, Belligolli A, Bicchiega V and Muzzarelli F, Morphological study of the capsular organization around tissue expanders coated with *N*-carboxybutyl chitosan, 287
Bicchiega V *see* Biagini G, 287
Bleichurodt RP *see* Simmermacher RKJ, 22
Boering G *see* Bos RRM, 32
Bonfield W *see* Doyle C, 841
Bos RRM, Rozema FR, Boering G, Nijenhuis AJ, Pennings AJ, Verwey AB, Nieuwenhuis P and Jansen H, Degradation of and tissue reaction to biodegradable poly(L-lactide) for use as internal fixation of fractures: a study in rats, 32
Brach del Prever E *see* Barbon F, 565
Braden M and Davy KWM, A study of polymeric systems based on 2,2 bis-4(2-hjydroxy-3-methacryloyloxypropoxy)phenyl propane, 406
Braden M and Patel MP, Heterocyclic methacrylates for clinical applications. I. Mechanical properties, 645
Braden M and Patel MP, Heterocyclic methacrylates for clinical applications. III. Water absorption characteristics, 653
Braden M *see* Somerton M, 13
see Davy KWM, 540
see Patel MP, 649
Brinkman E, van der Does L and Bantjes A, Poly(vinyl alcohol)-heparin hydrogels for use as sensor catheter membranes, 63
Brøndsted H and Kopeček J, Hydrogels for site-specific oral drug delivery: synthesis and characterization, 584
Brook IM, Craig GT and Lamb DJ, In vitro interaction between primary bone organ cultures, glass–ionomer cements and hydroxyapatite/tricalcium phosphate ceramics, 179
Brown W *see* Levy RJ, 707
Brun P *see* Cortivo R, 727
Bundy KJ, Williams CJ and Luedemann RE, Stress-enhanced ion release - the effect of static loading, 627

Cadic Ch *see* Dupuy B, 493
Caiazza S, Taruscio D, Ciaralli F, Crateri P, Chistolini P, Bedini L, Colangelo P and Pintucci S, Evaluation of an experimental periodontal ligament for dental implants, 474
Caliceti P *see* Lora S, 275
Caplan AI *see* Goshima J, 253
Carenza M *see* Lora S, 275
Castillo-Olivares JL *see* Jorge-Herrero E, 249, 683
Caughman GB *see* Caughman WF, 737
Caughman WF, Caughman GB, Shiflett RA, Rueggeberg F and Schuster GS, Correlation of cytotoxicity, filler loading and curing time of dental composites, 737
Cerulli G *see* Barbon F, 565
Chabrol C *see* Rieu J, 139
Chandy T *see* Sharma CP, 677
Chen WS and Monroe EA, Phosphate glass cement bone graft, 561
Chen X *see* Kitano H, 640
Cheng H *see* Rao T-J, 335
Chignell CF *see* Pitt CG, 715
Chignier E *see* Freyria AM, 111
Chin RC *see* Goodman SB, 194
Chiou SS *see* Goodman SB, 194
Chistolini P *see* Caiazza S, 474
Chitambara Thanoo B, Sunny MC and Jayakrishnan A, Tantalum-loaded polyurethane microspheres for particulate embolization: preparation and properties, 525
Chytry V *see* Crepon B, 550
Ciaralli F *see* Caiazza S, 474
Cífková I *see* Štol M, 454
Cinquegrani M *see* Peluso G, 231
Clark GM *see* Shepherd RK, 417
Clarke Anderson H *see* Levy RJ, 707
Clauss LC *see* Rosdy M, 511
Cohen R *see* Cooper ML, 243
Colangelo P *see* Caiazza S, 474
Collet D, Lefebvre F, Quentin C and Rabaud M, In vitro studies of elastin–fibrin biomaterial degradation. Preservative effects of protease inhibitors and antibiotics, 763
Cooper ML, Hansbrough JF, Spielvogel RL, Cohen R, Bartel R and Naughton G, In vivo optimization of a living dermal substitute employing cultured human fibroblasts on a biodegradable polyglycolic acid or polyglactin mesh, 243
Cooper SL *see* Okkema AZ, 3, 668
see Takahara A, 324
Cortivo R, Brun P, Rastrelli A and Abatangelo G, In vitro studies on biocompatibility of hyaluronic acid esters, 727
Courtney JM *see* Yu J, 119
see Patel BCM, 722
Coury AJ *see* Takahara A, 324
Craig GT *see* Brook IM, 179
Crateri P *see* Caiazza S, 474
Crepon B, Jozefonicz J, Chytry V, Říhová B and Kopeček J, Enzymatic degradation and immunogenic properties of derivatized dextrans, 550
Cumming R *see* Levy RJ, 707

Damadei A *see* Biagini G, 281, 287
Dankert J *see* Harkes G, 853
Davies MC *see* Harper GR, 695
Davies MC, Khan MA, Lynn RAP, Heller J and Watts JF, X-ray photoelectron spectroscopy analysis of the surface chemical structure of some biodegradable poly(orthoesters), 305
Davis SS *see* Harper GR, 695
Davy KWM and Braden M, Residual monomer in acrylic polymers, 540
Davy KWM *see* Braden M, 406
Dekker A, Reitsma K, Beugeling T, Bantjes A, Feijen J and Aken WG, Adhesion of endothelial cells and adsorption of serum proteins on gas plasma-treated polytetrafluoroethylene, 130
de Groot JH *see* Klompmaker J, 810
de Groot K *see* Jansen JA, 25
De Moor PC, Doh L and Siegel RA, Long-term structural changes in pH sensitive hydrogels, 836
Del Bue et al GL, *see* Barbon F, 565
den Hollander W, Patka P, Klein CPAT and Heidendal GAK, Macroporous calcium phosphate ceramics for bone substitution: a tracer study on biodegradation with ^{45}Ca tracer, 569
Desai NP and Hubbell JA, Solution technique to incorporate polyethylene oxide and other water-soluble polymers into surfaces of polymeric biomaterials, 144
DiBenedetto G *see* Biagini G, 281
Doh L *see* De Moor PC, 836
Doyle C, Tanner ET and Bonfield W, In vitro and in vivo evaluation of polyhydroxybutyrate and of polyhydroxybutyrate reinforced with hydroxyapatite, 841
Drake C *see* Gilchrist T, 76
Drummond RK *see* Peppas NA, 356
Ducassou D *see* Rabaud M, 313
see Dupuy, B, 493
Ducheyne P *see* Kim CS, 461
Dufy B *see* Dupuy B, 493
Dumitriu M *see* Dumitriu S, 821
Dumitriu S and Dumitriu M, Bioactive polymers 66. Theophylline retardation in xanthan-based hydrogels, 821
Dupuy B, Cadic Ch, Gin H, Baquey Ch, Dufy B and Ducassou D, Microencapsulation of isolated pituitary cells by polyacrylamide microlatex coagulation on agarose beads, 493

Edelman ER, Mathiowitz E, Langer R and Klagsbrun M, Controlled and modulated release of basic fibroblast growth factor, 619
Ellingsen JE, A study on the mechanism of protein adsorption to TiO_2, 593
Engelberg I and Kohn J, Physico-mechanical properties of degradable polymers used in medical applications: a comparative study, 292
Eriksson AS and Thomsen P, Leukotriene B_4, interleukin 1 and leukocyte accumulation in

Author Index

Abatangelo G *see* Cortivo R, 727
Adam M *see* Štol M, 454
Aebischer P *see* Guenard V, 259
see Fine EG, 775
Aebischer P , Wahlberg L, Tresco PA and Winn SR, Macroencapsulation of dopamine-secreting cells by coextrusion with an organic polymer solution, 50
Akashi A, Matsuya Y and Nagasawa H, Erosion process of calcium hydroxide cements in water, 795
Alexander H *see* Wen S, 479
Alliot-Licht B, Gregoire M, Orly I and Menanteau J, Cellular activity of osteoblasts in the presence of hydroxyapatite. An *in vitro* experiment, 752
Ambrosio L *see* Peluso G, 231
Andreopoulos AG, Papaspyrides CD and Tsilibounidis S, Surface treated polyethylene fibres as reinforcement for acrylic resins, 83
Andrianova MYu *see* Krasovskaya SM, 817
Asano M *see* Fukuzaki H, 433
Atkinson AS *see* Pearson GJ, 658

Badour B *see* Rao T-J, 335
Bakker D *see* van Blitterswijk CA, 187
Bakker WW, van der Lei B, Nieuwenhuis P, Robinson P and Bartels HL, Reduced thrombogenicity of artificial materials by coating with ADPase, 603
Ban S *see* Maruno S, 225
Ban S, Hasegawa J and Maruno S, Electrochemical corrosion behaviour of hydroxyapatite–glass–titanium composite, 205
Bantjes A *see* Brinkman E, 63
see Dekker A, 130
Baquey Ch *see* Dupuy B, 493
Barbon F, Locardi B, Verita M, Gabbi C, Grispigni C, Tranquilli Leali P, Brach del Prever E, Gallinaro P, Cerulli G, Del Bue GL, Lualdi G, Vita Finzi E, Giusti P and Marotti F, Biocompatibility and osteogenetic characteristics of new biocompatible glasses, 565
Bartel R *see* Cooper ML, 243
Bartels HL *see* Bakker WW, 603
Battaglia P *see* Lora S, 275
Bedini L *see* Caiazza S, 474
Beekman AC *see* Goldenberg MS, 267
Belligolli A *see* Biagini G, 281, 287
Bertani A *see* Biagini G, 281, 287
Beugeling T *see* Dekker A, 130
Biagini G, Bertani A, Muzzarelli R, Damadei A, Zucchini C, DiBenedetto G, Belligolli A, Ricotti G and Rizzoli C, Wound management with *N*-carboxybutyl chitosan, 281
Biagini C, Pugnaloni A, Damadei A, Bertani A, Belligolli A, Bicchiega V and Muzzarelli F, Morphological study of the capsular organization around tissue expanders coated with *N*-carboxybutyl chitosan, 287
Bicchiega V *see* Biagini G, 287
Bleichurodt RP *see* Simmermacher RKJ, 22
Boering G *see* Bos RRM, 32
Bonfield W *see* Doyle C, 841
Bos RRM, Rozema FR, Boering G, Nijenhuis AJ, Pennings AJ, Verwey AB, Nieuwenhuis P and Jansen H, Degradation of and tissue reaction to biodegradable poly(L-lactide) for use as internal fixation of fractures: a study in rats, 32
Brach del Prever E *see* Barbon F, 565
Braden M and Davy KWM, A study of polymeric systems based on 2,2 bis-4(2-hjydroxy-3-methacryloyloxypropoxy)phenyl propane, 406
Braden M and Patel MP, Heterocyclic methacrylates for clinical applications. I. Mechanical properties, 645
Braden M and Patel MP, Heterocyclic methacrylates for clinical applications. III. Water absorption characteristics, 653
Braden M *see* Somerton M, 13
see Davy KWM, 540
see Patel MP, 649
Brinkman E, van der Does L and Bantjes A, Poly(vinyl alcohol)-heparin hydrogels for use as sensor catheter membranes, 63
Brøndsted H and Kopeček J, Hydrogels for site-specific oral drug delivery: synthesis and characterization, 584
Brook IM, Craig GT and Lamb DJ, In vitro interaction between primary bone organ cultures, glass–ionomer cements and hydroxyapatite/tricalcium phosphate ceramics, 179
Brown W *see* Levy RJ, 707
Brun P *see* Cortivo R, 727
Bundy KJ, Williams CJ and Luedemann RE, Stress-enhanced ion release - the effect of static loading, 627

Cadic Ch *see* Dupuy B, 493
Caiazza S, Taruscio D, Ciaralli F, Crateri P, Chistolini P, Bedini L, Colangelo P and Pintucci S, Evaluation of an experimental periodontal ligament for dental implants, 474
Caliceti P *see* Lora S, 275
Caplan AI *see* Goshima J, 253
Carenza M *see* Lora S, 275
Castillo-Olivares JL *see* Jorge-Herrero E, 249, 683
Caughman GB *see* Caughman WF, 737
Caughman WF, Caughman GB, Shiflett RA, Rueggeberg F and Schuster GS, Correlation of cytotoxicity, filler loading and curing time of dental composites, 737
Cerulli G *see* Barbon F, 565
Chabrol C *see* Rieu J, 139
Chandy T *see* Sharma CP, 677
Chen WS and Monroe EA, Phosphate glass cement bone graft, 561
Chen X *see* Kitano H, 640
Cheng H *see* Rao T-J, 335
Chignell CF *see* Pitt CG, 715
Chignier E *see* Freyria AM, 111
Chin RC *see* Goodman SB, 194
Chiou SS *see* Goodman SB, 194
Chistolini P *see* Caiazza S, 474
Chitambara Thanoo B, Sunny MC and Jayakrishnan A, Tantalum-loaded polyurethane microspheres for particulate embolization: preparation and properties, 525
Chytry V *see* Crepon B, 550
Ciaralli F *see* Caiazza S, 474
Cífková I *see* Štol M, 454
Cinquegrani M *see* Peluso G, 231
Clark GM *see* Shepherd RK, 417
Clarke Anderson H *see* Levy RJ, 707
Clauss LC *see* Rosdy M, 511
Cohen R *see* Cooper ML, 243
Colangelo P *see* Caiazza S, 474
Collet D, Lefebvre F, Quentin C and Rabaud M, In vitro studies of elastin–fibrin biomaterial degradation. Preservative effects of protease inhibitors and antibiotics, 763
Cooper ML, Hansbrough JF, Spielvogel RL, Cohen R, Bartel R and Naughton G, In vivo optimization of a living dermal substitute employing cultured human fibroblasts on a biodegradable polyglycolic acid or polyglactin mesh, 243
Cooper SL *see* Okkema AZ, 3, 668
see Takahara A, 324
Cortivo R, Brun P, Rastrelli A and Abatangelo G, In vitro studies on biocompatibility of hyaluronic acid esters, 727
Courtney JM *see* Yu J, 119
see Patel BCM, 722
Coury AJ *see* Takahara A, 324
Craig GT *see* Brook IM, 179
Crateri P *see* Caiazza S, 474
Crepon B, Jozefonicz J, Chytry V, Říhová B and Kopeček J, Enzymatic degradation and immunogenic properties of derivatized dextrans, 550
Cumming R *see* Levy RJ, 707

Damadei A *see* Biagini G, 281, 287
Dankert J *see* Harkes G, 853
Davies MC *see* Harper GR, 695
Davies MC, Khan MA, Lynn RAP, Heller J and Watts JF, X-ray photoelectron spectroscopy analysis of the surface chemical structure of some biodegradable poly(orthoesters), 305
Davis SS *see* Harper GR, 695
Davy KWM and Braden M, Residual monomer in acrylic polymers, 540
Davy KWM *see* Braden M, 406
Dekker A, Reitsma K, Beugeling T, Bantjes A, Feijen J and Aken WG, Adhesion of endothelial cells and adsorption of serum proteins on gas plasma-treated polytetrafluoroethylene, 130
de Groot JH *see* Klompmaker J, 810
de Groot K *see* Jansen JA, 25
De Moor PC, Doh L and Siegel RA, Long-term structural changes in pH sensitive hydrogels, 836
Del Bue et al GL, *see* Barbon F, 565
den Hollander W, Patka P, Klein CPAT and Heidendal GAK, Macroporous calcium phosphate ceramics for bone substitution: a tracer study on biodegradation with ^{45}Ca tracer, 569
Desai NP and Hubbell JA, Solution technique to incorporate polyethylene oxide and other water-soluble polymers into surfaces of polymeric biomaterials, 144
DiBenedetto G *see* Biagini G, 281
Doh L *see* De Moor PC, 836
Doyle C, Tanner ET and Bonfield W, In vitro and in vivo evaluation of polyhydroxybutyrate and of polyhydroxybutyrate reinforced with hydroxyapatite, 841
Drake C *see* Gilchrist T, 76
Drummond RK *see* Peppas NA, 356
Ducassou D *see* Rabaud M, 313
see Dupuy, B, 493
Ducheyne P *see* Kim CS, 461
Dufy B *see* Dupuy B, 493
Dumitriu M *see* Dumitriu S, 821
Dumitriu S and Dumitriu M, Bioactive polymers 66. Theophylline retardation in xanthan-based hydrogels, 821
Dupuy B, Cadic Ch, Gin H, Baquey Ch, Dufy B and Ducassou D, Microencapsulation of isolated pituitary cells by polyacrylamide microlatex coagulation on agarose beads, 493

Edelman ER, Mathiowitz E, Langer R and Klagsbrun M, Controlled and modulated release of basic fibroblast growth factor, 619
Ellingsen JE, A study on the mechanism of protein adsorption to TiO_2, 593
Engelberg I and Kohn J, Physico-mechanical properties of degradable polymers used in medical applications: a comparative study, 292
Eriksson AS and Thomsen P, Leukotriene B_4, interleukin 1 and leukocyte accumulation in

titanium and PTFE chambers after implantation in the rat abdominal wall, 827
Evans EJ, Toxity of hydroxyapatite in vitro: the effect of particle size, 574
Evans JH *see* Patel BCM, 722

Feijen J *see* Dekker A, 130
see van Wachem PB, 215
see Harkes G, 853
Fernandez P *see* Jorge-Herrero E, 683
Feuerstein IA *see* Gaebel K, 597
Fine EG, Valentini RF and Aebischer P, Improved nerve regeneration through piezoelectric vinylidenefluoride–trifluoro-ethylene copolymer guidance channels, 775
Forberg S *see* Li J, 438
Francis JD *see* Kalliyana Krishnan V, 489
Franks J *see* Thomson LA, 37
Freyria AM, Chignier E, Guidollet J and Louisot P, Peritoneal macrophage response: an *in vivo* model for the study of synthetic materials, 111
Fukuzaki H, Yoshida M, Asano M, Kumakura M, Mashimo T, Yuasa H, Imai K and Yamanaka H, *In vivo* characteristics of high molecular weight copoly(L-lactide/glycolide) with S-type degradation pattern for application in drug delivery systems, 433

Gabbi C *see* Barbon F, 565
Gaebel K and Feuerstein IA, Platelets process adsorbed protein: a morphological study, 597
Gallinaro P *see* Barbon F, 565
Gatti AM and Zaffe D, Long-term behaviour of active glasses in sheep's mandibular bone, 345
Gatti AM and Zaffe D, Short-term behaviour of two similar active glasses used as granules in the repair of bone defects, 497
Gavin JB *see* Levy RJ, 707
Gilchrist T, Healy DM and Drake C, Controlled silver-releasing polymers and their potential for urinary tract infection control, 76
Gin H *see* Dupuy B, 493
Goldberg VM *see* Goshima J, 253
Goldenberg MS and Beekman AC, Detection of protein deposition on contact lens type polymeric hydrogels by Coomassie blue R staining, 267
Golomb G and Wagner D, Development of a new in vitro model for studying implantable polyurethane calcification, 397
Goodman SB, Lee JS, Chin RC and Chiou SS, Modulation of the membrane surrounding particulate cement and polyethylene in the rabbit tibia, 194
Goshima J, Goldberg VM and Caplan AI, Osteogenic potential of culture-expanded rat marrow cells as assayed in vivo with porous calcium phosphate ceramic, 253
Graham NB *see* Yu J, 119
Gregoire M *see* Alliot-Licht B, 752
Gregson PJ *see* Wisbey A, 470
Grisoni B *see* Rosdy M, 511
Grispigni C *see* Barbon F, 565
Gross UM *see* Müller-Mai C, 865
Guenard V, Valentini RF and Aebischer P, Influence of surface texture of polymeric sheets influences peripheral nerve regeneration in a two-compartment guidance system, 259
Guidoin R *see* Rao T-J, 335
Guidollet J *see* Freyria AM, 111
Guillen Garcia P *see* San Roman J, 236
Gutierrez MP *see* Jorge-Herrero E, 249, 683

Hall PJ *see* Milthorpe BK, 577
Hanawa T and Ota M, Calcium phosphate naturally formed on titanium in electrolyte solution, 767
Hansbrough JF *see* Cooper ML, 243
Harasaki H *see* Levy RJ, 707
Harkes G, Feijen J and Dankert J, Adhesion of *Escherichia coli* onto a series of poly(methacrylates) differing in charge and hydrophobicity, 853
Harmand, M-F *see* Naji A, 690
Harper GR, Davies MC and Davis SS, Steric stabilisation of microspheres with grafted polyethylene oxide reduces phagocytosis by rat Kupffer cells in vitro, 695
Harrison DJ *see* Turner RFB, 361
Hasegawa J *see* Ban S, 205
Hastings GW *see* Knowles JC, 210
Healy DM *see* Gilchrist T, 76
Heidendal GAK *see* den Hollander W, 569
Heller J *see* Davies MC, 305
Hermansson L *see* Li J, 438
Hero H *see* Jorgensen RB, 17
Hesseling SC *see* Van Blitterswijk CA, 187
Hettlich HJ, Otterbach F, Mittermayer Ch, Kaufmann R and Klee D, Plasma-induced surface modifications on silicone intraocular lenses: chemical analysis and in vitro characterization, 521
Hill R *see* Wood D, 164
Howlett CR *see* Milthorpe BK, 577
see James NL, 801
Hubbell JA *see* Desai NP, 144
Hunt JA *see* Vince DG, 731
Hyon S-H *see* Ike O, 757

Ikada Y *see* Uyama Y, 71
see Kobayashi H, 747
see Ike O, 757
see Kishida A, 786
Ike O, Shimizu Y, Ikada Y, Watanabe S, Natsume T, Wada R and Hyon S-H, Biodegradation and antitumor effect of adriamycin-containing poly (L-lactic acid) microspheres, 757
Imai K *see* Fukuzaki H, 433
Imanishi Y *see* Liu L, 390
see Ito Y, 449
see Liu L, 545
Ishihara K *see* Kojima, M, 121
Ishikawa T *see* Maruno S, 225
Ito M, *In vitro* properties of a chitosan-bonded hydroxyapatite bone-filling paste, 41
Ito Y *see* Liu L, 390, 545
Ito Y, Qin Liu S and Imanishi Y, Enhancement of cell growth on growth-factor-immobilized polymer film, 449
Itoh H *see* Maruno S, 225
Iwata H *see* Maruno S, 225
see Kishida A, 786

James KH *see* Thomson LA, 780
James NL, Poole-Warren LA, Schindhelm K, Milthorpe BK, Mitchell RM, Mitchell RE and Howlett CR, A comparative evaluation of treated bovine pericardium as a xenograft for hernia repair, 801
Janatová V *see* Lednický F, 848
Jansen HWB *see* Bos RRM, 32
see Klompmaker J, 810
Jansen JA, van der Waerden JPCM and de Groot K, Fibroblast and epithelial cell interactions with surface-treated implant materials, 25
Jayakrishnan A *see* Kalliyana Krishnan V, 489
see Chitambara Thanoo B, 525
Johnson C *see* Kearney JN, 431
Johnson G *see* Steele JG, 531
Jones DB, Nolte H, Scholubbers, J-G, Turner E and Veltel D, Biochemical signal transduction of mechanical strain in osteoblast-like cells, 101
Jorge-Herrero E, Fernandez P, Gutierrez M and Castillo-Olivares JL, Study of the calcification of bovine pericardium: analysis of the implication of lipids and proteoglycans, 683
Jorge-Herrero E, Gutierrez MP and Castillo-Olivares JL, Calcification of soft tissue employed in the construction of heart valve prostheses: study of different chemical treatments, 249
Jørgensen RB, Herø H and Kullmann A, Effects of In and Zn on properties of low noble metal alloys, 17
Jozefonicz J *see* Crepon B, 550
Juni K *see* Saito T, 309

Kalliyana Krishnan V, Jayakrishnan A and Francis JD, Radiation grafting of hydrophilic monomers on to plasticized poly(vinyl chloride) sheets II. Migration behaviour of the plasticizer from *N*-vinyl pyrrolidone grafted sheets, 489
Kaneko T, Pulsed oscillation technique for assessing the mechanical state of the dental implant–bone interface, 555
Kaufmann R *see* Hettlich HJ, 521
Kearney JN and Johnson C, Evaluation of NaOH treatment of human dura mater implants to obviate Creutzfeldt-Jakob Disease transmission, 431
Khan MA *see* Davies MC, 305
Kim CS and Ducheyne P, Compositional variations in the surface and interface of calcium phosphate ceramic coatings on Ti and Ti-6Al-4V due to sintering and immersion, 461
King M *see* Rao T-J, 335
Kishida A, Iwata H, Tamada Y and Ikada Y, Cell behaviours on polymer surfaces grafted with nonionic and ionic monomers, 786
Kitano H, Yan C, Chen X, Wang D, Li X, Zhong D and Tan T, Anticancer gelatin microspheres with multiple functions, 640
Klagsbrun M *see* Edelman ER, 619
Klee D *see* Hettlich HJ, 521
Klein CPAT *see* den Hollander W, 569
Klompmaker J, Jansen HWB, Veth RPH, de Groot JH, Nijenhuis AJ and Pennings AJ, A porous polymer implant for repair of meniscal lesions: a preliminary study in dogs, 810
Knarse W *see* Müller-Mai C, 865
Knowles JC and Hastings GW, In vitro degradation of a PHB/PHV copolymer and a new technique for monitoring early surface changes, 210
Kobayashi H and Ikada Y, Covalent immobilization of proteins onto the surface of poly (vinyl alcohol) hydrogel, 747
Koch TH *see* Levy RJ, 707
Koerten HK *see* van Blitterswijk CA, 187
see van Wachem PB, 215
Kohn J *see* Engelberg I, 292
Kojima M, Ishihara K, Watanabe A and Nakabayashi N, Interaction between phospholipids and biocompatible polymers containing a phosphorylcholine moiety, 121
Kokubo T, Bioactive glass-ceramics: properties and applications, 155
Konoplitskaya KL, Pkhakadze GA and Narazayko LF, Biocompatibility investigation of a prolonged action antialcohol preparation, 701
Kopeček J *see* Crepon B, 550
see Brøndsted H, 584
Krasovskaya SM, Uzhinova LD, Andrianova M Yu, Prischenko AA, Livantsov MV and Lomonosov MV, Experimental study of some biochemical and physico-chemical aspects of biomaterials calcification, 817
Kullmann A *see* Jørgensen RB, 17
Kumakura M *see* Fukuzaki H, 433

Lal N *see* Talwar IM, 518
Lamb DJ *see* Brook IM, 179
Langer R *see* Edelman ER, 619

Latour JF *see* Tabone E, 741
Lavallee C *see* Woerly S, 197
Law FC *see* Thomson LA, 37
see Thomson LA, 780
Lednický F, Janatová V, Lopour P and Vondráček P, Silicone rubber - hydrogel composites as polymeric biomaterials III. An investigation of phase distribution by scanning electron microscopy, 848
Lee HB *see* Lee JH, 443
Lee JH, Park JW and Lee HB, Cell adhesion and growth on polymer surfaces with hydroxyl groups prepared by water vapour plasma treatment, 443
Lee JS *see* Goodman SB, 194
Lefebvre F *see* Collet D, 763
Lefebvre R *see* Rabaud M, 313
Lemaître J *see* Mirtchi AA, 505
Levy RJ, Schoen FJ, Clarke Anderson H, Harasaki H, Koch TH, Brown W, Lian JB, Cumming R, Gavin JB, Cardiovascular implant calcification: a survey and update, 707
Li C *see* Rao T-J, 335
Li J, Forberg S and Hermansson L, Evaluation of the mechanical properties of hot isostatically pressed titania and titania-calcium phosphate composites, 438
Li X *see* Kitano H, 640
Lian JB *see* Levy RJ, 707
Lin TS *see* Zimmerman MC, 424
Liu L, Ito Y and Imanishi Y, Synthesis and antithrombogenicity of heparinized polyurethanes with intervening spacer chains of various kinds, 390
Liu L, Ito Y and Imanishi Y, Biological activity of urokinase immobilized to cross-linked poly (2-hydroxyethyl methacrylate), 545
Livantsov MV *see* Krasovskaya SM, 817
Ljunggren L *see* Mandenius CF, 369
Locardi B *see* Barbon F, 565
Lomonosov MV *see* Krasovskaya SM, 817
Lopour P *see* Lednicky F, 848
Lora A *see* Lora S, 275
Lora S, Carenza M, Palma G, Pezzin G, Caliceti P, Battaglia P and Lora A, Biocompatible polyphosphazenes by radiation-induced graft copolymerization and heparinization, 275
Louisot, P *see* Freyria AM, 111
Luedemann RE *see* Bundy KJ, 627
Lynn RAP *see* Davies MC, 305

Mandenius CF and Ljunggren L, Ellipsometric studies of plasma protein adsorption on membrane polymers for blood purification, 369
Marceau D *see* Rao T-J, 335
Marchand R *see* Woerly S, 197
Maruno S *see* Ban S, 205
Maruno S, Itoh H, Ban S, Iwata H and Ishikawa T, Micro-observation and characterization of bonding between bone and HA-glass-titanium functionally gradient composite, 225
Mashimo T *see* Fukuzaki H, 433
Mathiowitz E *see* Edelman ER, 619
Matsuya Y *see* Akashi A, 795
Menanteau J *see* Alliot-Licht B, 752
Mignot A *see* Tabone E, 741
Milthorpe BK *see* James NL, 801
Milthorpe BK, Schindhelm K, Howlett CR, Hall PJ and Rogers GJ, Treated xenografts as gliding tendon prostheses in an ovine model, 577
Mirtchi AA, Lemaître J and Munting E, Calcium phosphate cements: effect of fluorides on the setting and hardening of β-tricalcium phosphate–dicalcium phosphate–calcite cements, 505
Mitchell RE *see* James NL, 801
Mitchell RM *see* James NL, 801
Mittermayer Ch *see* Hettlich HJ, 521
Monroe EA *see* Chen WS, 561
Moran CR *see* Yu J, 119
Müller-Mai C, Voigt C, Knarse W, Sela J and Gross UM, The early host and material response of bone-bonding and non-bonding glass–ceramic implants as revealed by scanning electron microscopy and histochemistry, 865
Munting E *see* Mirtchi AA, 505
Muzzarelli F *see* Biagini G, 287
Muzzarelli R *see* Biagini G, 281

Nagasawa H *see* Akashi A, 795
Naji A and Harmand M-F, Cytocompatibility of two coating materials, amorphous alumina and silicon carbide, using human differentiated cell cultures, 690
Nakabayashi N *see* Kojima M, 121
Narazayko LF *see* Konoplitskaya KL, 701
Natsume T *see* Ike O, 757
Naughton G *see* Cooper ML, 243
Nicolais L *see* Peluso G, 231
Nieuwenhuis P *see* Bos RRM, 32
see van Wachem PB, 215
see Bakker WW, 603
Nijenhuis AJ *see* Bos RRM, 32
see Klompmaker J, 810
Nolte H *see* Jones DB, 101
Norris WD *see* Steele JG, 531

Ohgushi H *see* Okumura M, 411
Okazaki M, Fluoridated hydroxyapatites synthesized with organic phosphate ester, 46
Okazaki M, Crystallographic behaviour of fluoridated hydromapatites containing Mg^{2+} and CO_3^{2-} loss, 831
Okkema AZ and Cooper SL, Effect of carboxylate and/or sulphonate ion incorporation on the physical and blood-contacting properties of a polyetherurethane, 668
Okkema AZ *see* Takahara A, 324
Okkema AZ, Yu X-H and Cooper SL, Physical and blood contacting characteristics of propyl sulphonate grafted Biomer, 3
Okumura M, Ohgushi H and Tamai S, Bonding osteogenesis in coralline hydroxyapatite combined with bone marrow cells, 411
Olde Damink L *see* van Wachem PB, 215
Ooba K *see* Saito T, 309
Oonishi H, Orthopaedic applications of hydroxyapatite, 171
Orly I *see* Alliot-Licht B, 752
Ota M *see* Hanawa T, 767
Otterbach F *see* Hettlich HJ, 521

Palma G *see* Lora S, 275
Pan C *see* Rao T-J, 335
Papaspyrides CD *see* Andreopoulos AG, 83
Parson JR *see* Zimmerman MC, 424
Patel BCM, Courtney JM, Evans JH and Paul, JP, Biocompatibility assessment: application of the fluorescent probe response (FPR) technique, 722
Patel MP *see* Braden M, 645, 653
Patel MP and Braden M, Heterocyclic methacrylates for clinical applications II Room-temperature polymerizing systems for potential clinical use, 649
Patka P *see* den Hollander W, 569
Paul JP *see* Patel BCM, 722
Pearson GJ and Atkinson AS, Long-term flexural strength of glass ionomer cements, 658
Peluso G, Ambrosio L, Cinquegrani M, Nicolais L, Saiello S and Tajana G, Rat peritoneal immune response to carbon fibre reinforced epoxy composite implants, 231
Pennings AJ *see* Bos RRM, 32
see Klompmaker J, 810
Peppas NA and Drummond RK, Fibrinolytic behaviour of streptokinase-immobilized poly(methacrylic acid-g-ethylene oxide), 356
Peter LM *see* Wisbey A, 470
Pezzin G *see* Lora S, 275
Pichat A *see* Rieu J, 139
Pietrucha K, New collagen implant as dural substitute, 320
Pilliar RM, Modern metal processing for improved load-bearing surgical implants, 95
Pintucci S *see* Caiazza S, 474
Pitt CG, Song XC, Sik R and Chignell CF, Spin labels as a probe of the molecular environment of covalently bound ligands in a hydrophobic and an hydrophilic polymer, 715
Pkhakadze GA *see* Konoplitskaya KL, 701
Polyzois GL, Winter RW and Stafford GD, Boundary lubrication and maxillofacial prosthetic polydimethylsiloxanes, 79
Poole-Warren LA *see* James NL, 801
Prischenko AA *see* Krasovskaya SM, 817
Pugnaloni A *see* Biagini G, 287

Qin Liu S *see* Ito Y, 449
Quentin C *see* Collet D, 763

Rabaud M *see* Collet D, 763
Rabaud M, Lefebvre R and Ducassou D, In vitro association of type III collagen with elastin and with its solubilized peptides, 313
Rabbe L-M *see* Rieu J, 139
Rajotte RV *see* Turner RFB, 361
Rambert A *see* Rieu J, 139
Ranchere JY *see* Tabone E, 741
Rao T-J, Pan C, Guidoin R, Marceau D, Roy P-E, King M, Badour B, Rui J, Cheng H and Li C, A soft filamentous woven polyester arterial prosthesis from China, 335
Rastrelli A *see* Cortivo R, 727
Reitsma K *see* Dekker A, 130
Remes A and Williams DF, Neutrophil polarization and immunoelectrophoresis assays in the study of complement activation by biomaterials, 607
Remes A and Williams DF, Relationship between chemotaxis and complement activation by ceramic biomaterials, 661
Ricotti G *see* Biagini G, 281
Rieu J, Pichat A, Rabbe L-M, Rambert A, Chabrol C and Robelet M, Ion implantation effects on friction and wear of joint prosthesis materials, 139
Rihova B *see* Crepon B, 550
Rizzoli C *see* Biagini G, 281
Robelet M *see* Rieu J, 139
Robinson P *see* Bakker WW, 603
Rogers GJ *see* Milthorpe BK, 577
Rosdy M, Grisoni B and Clauss LC, Proliferation of normal human keratinocytes on silicone substrates, 511
Roy P-E *see* Rao T-J, 335
Rozema FR *see* Bos RRM, 32
Rueggeberg F *see* Caughman WF, 737
Rui J *see* Rao T-J, 335
Rushton N *see* Thomson LA, 37, 780

Saiello S *see* Peluso G, 231
Saito T, Tomita K, Juni K and Ooba K, *In vivo* and *in vitro* degradation of poly(3-dydroxybutyrate) in rat, 309
San Roman J and Guillen Garcia P, Partially biodegradable polyacrylic–polyester composites for internal bone fracture fixation, 236
Scalzo HL *see* Zimmerman MC, 424
Schadenraad JM *see* Simmermacher RKJ, 22
Schindhelm K *see* Milthorpe BK, 577
see James NL, 801
Schmidt JA and von Recum AF, Texturing of polymer surfaces at the cellular level, 385
Schoen FJ *see* Levy RJ, 707
Scholubbers J-G *see* Jones DB, 101
Schon R *see* Streicher RM, 125

Schuster GS *see* Caughman WF, 737
Sela J *see* Müller-Mai C, 865
Semlitsch M *see* Streicher RM, 125
Sharma CP and Chandy T, Effect of plasma glow, glutaraldehyde and carbodiimide treatments on the enzymatic degradation of poly(lactic acid) and poly (γ-benzyl-L-glutamate) films, 677
Shepherd RK and Clark GM, Scanning electron microscopy of platinum scala tympani electrodes following chronic stimulation in patients, 417
Shiflett RA *see* Caughman WF, 737
Shimizu Y *see* Ike O, 757
Siegel RA *see* De Moor PC, 836
Sik R *see* Pitt CG, 715
Simmermacher RKJ, van der Lei B, Schadenraad JM and Bleichrodt RP, Improved tissue ingrowth and anchorage of expanded polytetrafluoroethylene by perforation: an experimental study in the rat, 22
Somerton M, Braden M, Ward IM and Woods DW, Shear properties of some dental and other polymers, 13
Song XC *see* Pitt CG, 715
Spielvogel RL *see* Cooper ML, 243
Stafford GD *see* Polyzois GL, 79
Steele JG, Johnson G, Norris WD and Underwood PA, Adhesion and growth of cultured human endothelial cells on perfluorosulphonate: role of vitronectin and fibronectin in cell attachment, 531
Stevenson WTK *see* Wen S, 374, 479
Štol M, Cífková I, Tyráčková V and Adam M, Structural alterations of p(HEMA)-collagen implants, 454
Streicher RM, Weber H, Schon R and Semlitsch M, New surface modification for Ti-6Al-7Nb alloy: oxygen diffusion hardening (ODH), 125
Sundaram S *see* Yu J, 119
Sunny MC *see* Chitambara Thanoo B, 525

Tabone E, Latour JF, Mignot A and Ranchere JY, Alteration of the inner surface of venous catheters by antineoplastic drugs: a scanning electron microscopical and mechanical study, 741
Tadokoro H *see* Uyama Y, 71
Tajana G *see* Peluso G, 231
Takahara A, Okkema AZ, Cooper SL and Coury AJ, Effect of surface hydrophilicity on *ex vivo* blood compatibility of segmented polyurethanes, 324
Talwar IM, Yagyik Ya and Lal N, Thermally stimulated polarization studies of kidney stones II. Effect of annealing and thickness, 518
Tamada Y *see* Kishida A, 786
Tamai S *see* Okumura M, 411
Tan T *see* Kitano H, 640
Tanner ET *see* Doyle C, 841
Taruscio D *see* Caiazza S, 474
Ten Hoopen H *see* van Wachem PB, 215
Thomsen P *see* Eriksson AS, 827
Thomson LA, Law FC, Rushton N and Franks J, Biocompatibility of diamond-like carbon coating, 37
Thomson LA, Law FC, James KH and Rushton N, Biocompatibility of particles of GORE-TEX® cruciate ligament prosthesis an investigation both *in vitro* and *in vivo*, 780
Tomita K *see* Saito T, 309
Torop AH *see* Zimmerman MC, 424
Tranquilli Leali P *see* Barbon F, 565
Tresco PA *see* Aebischer P, 50
Tsilibounidis S *see* Andreopoulos AG, 83
Tuke M *see* Wisbey A, 470
Turner E *see* Jones DB, 101
Turner RFB, Harrison DJ and Rajotte RV, Preliminary *in vivo* biocompatibility studies on perfluorosulphonic acid polymer membranes for biosensor applications, 361
Tyráčková V *see* Štol M, 454

Underwood PA *see* Steele JG, 531
Uyama Y, Tadokoro H and Ikada Y, Low-frictional catheter materials by photo-induced graft polymerization, 71
Uzhinova LD *see* Krasovskaya SM, 817

Valentini RF *see* Guenard V, 259
see Fine EG, 775
van Aken WG *see* Dekker A, 130
van Blitterswijk CA, Bakker D, Hesseling SC and Koerten HK, Reactions of cells at implant surfaces, 187
van Luyn MJA *see* van Wachem PB, 215
van Wachem PB, van Luyn MJA, Nieuwenhuis P, Koerten HK, Olde Damink L, Ten Hoopen H and Feijen J, *In vivo* degradation of processed dermal sheep collagen evaluated with transmission electron microscopy, 215
van der Does L *see* Brinkman E, 63
van der Lei B *see* Simmermacher RKJ, 22
see Bakker, WW, 603
van der Waerden JPCM *see* Jansen JA, 25
Veltel D *see* Jones DB, 101
Verita M *see* Barbon F, 565
Verwey AB *see* Bos RRM, 32
Veth RPH *see* Klompmaker J, 810
Vince DG, Hunt JA and Williams DF, Quantitative assessment of the tissue response to implanted biomaterials, 731
Voigt C *see* Müller-Mai C, 865
von Recum AF *see* Schmidt JA, 385
Vondracek P *see* Lednicky F, 848

Wada R *see* Ike O, 757
Wagner D *see* Golomb G, 397
Wahlberg L *see* Aebischer P, 50
Wang D *see* Kitano H, 640
Wang PY, Palmitic acid as an excipient in implants for sustained release of insulin, 57
Ward IM *see* Somerton M, 13
Watanabe A *see* Kojima M, 121
Watanabe S *see* Ike O, 757
Watts JF *see* Davies MC, 305
Weber H *see* Streicher RM, 125
Wen S, Xiaonan Y and Stevenson WTK, Microcapsules through polymer complexation I. Complex coacervation of polymers containing a high charge density, 374
Wen S, Xiaonan Y, Stevenson WTK and Alexander H, Macrocapsules through polymer complexation II. By complex coacervation of polymers containing a low charge density, 479
Weng D *see* Yu J, 119
Williams CJ *see* Bundy KJ, 627
Williams DF *see* Remes A, 607, 661
see Vince DG, 731
Winn SR *see* Aebischer P, 50
Winter RW *see* Polyzois GL, 79
Wisbey A, Gregson PJ, Peter LM and Tuke M, Effect of surface treatment on the dissolution of titanium-based implant materials, 470
Woerly S, Marchand R and Lavallee C, Interactions of copolymeric poly(glyceryl methacrylate)–collagen hydrogels with neural tissue: effects of structure and polar groups, 197
Park WJ *see* Lee HJ, 443
Wood D and Hill R, Glass ceramic approach to controlling the properties of a glass–ionomer bone cement, 164
Woods DW *see* Somerton M, 13

Xiaonan Y *see* Wen S, 374, 479

Yagyik Ya *see* Talwar IM, 518
Yamanaka H *see* Fukuzaki H, 433
Yan C *see* Kitano H, 640
Yoshida M *see* Fukuzaki H, 433
Yoshioka H, Surface modification of haemoglobin-containing liposomes with polyethylene glycol prevents liposome aggregation in blood plasma, 861
Yu J, Sundaram S, Weng D, Courtney JM, Moran CR and Graham NB, Blood interactions with novel polyurethaneurea hydrogels, 119
Yu X-H *see* Okkema AZ, 3
Yuasa H *see* Fukuzaki H, 433

Zaffe D *see* Gatti AM, 345
Zaffe D *see* Gatti AM, 497
Zhong D *see* Kitano H, 640
Zimmerman MC, Scalzo HL, Parsons JR, Torop AH and Lin TS, Effects of environmental exposure on carbon polysulphone composites, 424
Zucchini C *see* Biagini G, 281

Subject Index

Absorption
carbon composites, polymers; 424
Acrylate
encapsulation, coextrusion; 50
ADPase coating
prosthesis, thrombogenicity; 603
Adriamycin
poly(L-lactic acid), microsphere, drug delivery system, constant release; 757
Agarose beads
microencapsulation, coagulation; 493
Aggregation
Liposome, PEG, artificial erythrocyte; 861
Alumina
biocompatibility, osteoblasts, fibroblasts; 690
Angiogenesis
chitosan, tissue regeneration; 287
Annealing
kidney stones, conductivity; 518
Antibiotics
elastin fibrin, protease inhibitors; 763
Antineoplastic drugs
catheters, silicone, polyurethane; 741
Antithrombogenicity
heparin, polyetherurethanes, platelets; 390
Apatite coating
bioactive glass ceramics, bone-bonding mechanism, bioactive bone cement; 155
Artifical erythrocyte
liposome, PEG, aggregation; 861
Autografts
tendons, xenografts, mechanical properties, glutaraldehyde; 577
Azoaromatic cross-links
site-specific drug delivery, hydrogels, *N*-substituted (meth)acrylamides, pH-dependent swelling; 584
Bacterial adhesion
poly(methacrylates), contact angle, zeta potential; 853
Bioactive bone cement
bioactive glass ceramics, bone-bonding mechanism, apatite coating; 155
Bioactive glass
dental materials, ceramics; 497
dental materials, implants, ceramics, biodegradation; 345
Bioactive glass ceramics
bone-bonding mechanism, apatite coating, bioactive bone cement; 155
Bioactive materials
cell–biomaterial interactions, surface modification; 187
Biocompatibility
titanium, implants; 470
hydroxyapatite, particle size, fibroblasts; 574
drug delivery, polyurethanes; 701
polyphosphazenes, grafting, copolymers, heparin; 275
alumina, osteoblasts, fibroblasts; 690
bone, osteoblasts, glass–ionomer cements; 179
surface film, calcium phosphate, titanium; 767
hyaluronic acid esters, cell adhesion, cell cultivation; 727
carbon-coating, diamond-like coating; 37
Biocompatible glasses
biomaterials, biodegradability, glassfibre; 565
Biodegradability
biocompatible glasses, biomaterials, glassfibre; 565
calcium phosphate bioceramics; 569
Biodegradation
implants, fracture fixation; 32
drug delivery; 640
poly(L-lactic acid), poly(γ-benzyl L-glutamate), surface treatments; 677
implants, insulin, drug delivery; 57
polymers, mechanical properties, thermal analysis; 292
collagen, transmission electron microscopy; 215
dental materials, implants, ceramics, bioactive glass; 345
copolymers, polymerization, drug delivery; 433
Biomaterials
biocompatible glasses, biodegradability, glassfibre; 565
Bioprostheses
calcification, proteoglycans, lipids; 683
Biosensors
membranes, polymers, implants; 361
Blood
polyester, vascular prostheses; 335
protein adsorption, membranes, polymers; 369
Blood compatibility
polyurethanes, blood–polymer interactions; 324
Blood interactions
hydrogel, polyurethaneurea; 119
Blood–material interactions
polyurethanes, grafting; 668
Blood–polymer interactions
grafted polymers, polyetherurethanes; 3
polyurethanes, blood compatibility; 324
polyethylene oxide, surface treatment; 144
Bone
hydroxyapatite, ceramics; 411
biocompatibility, osteoblasts, glass–ionomer cements; 179
hydroxyapatite, titanium; 225
hydroxyapatite, bone cement, prostheses; 171
glass–ceramic, material response, host response; 865
Bone cement
prostheses, polyethylene, loosening; 194
hydroxyapatite, bone, prostheses; 171
glass–ionomer, glass–ceramic, fluoro-alumino-silicate; 164
calcium phosphates, resorbable material; 505
Bone fixation
polyacrylic–polyester composites; 236
Bone formation
osteogenesis, rat marrow cells, calcium phosphate ceramics; 253
Bone graft
ceramic cement, phosphate glass, calcium phosphate; 561
Bone response
polyhydroxybutyrate, hydroxyapatite, composites; 841
Bone substitutes
hydroxyapatite, dental materials, chitosan; 41
Bone-bonding mechanism
bioactive glass ceramics, apatite coating, bioactive bone cement; 155
Calcification
bioprostheses, proteoglycans, lipids; 683
heart valve prosthesis, tissue morbidity; 817
polymer, polyurethane, prosthesis; 397
heart valves, prosthesis; 249
prosthesis, polymers; 707
Calcium phosphate bioceramics
biodegradability; 569
Calcium phosphate
titanium, coatings, composition; 461
ceramic cement, phosphate glass, bone graft; 561
titanium, composites; 438
surface film, titanium, biocompatibility; 767
Calcium phosphate ceramics
osteogenesis, bone formation, rat marrow cells; 253
Calcium phosphates
bone cements, resorbable material; 505
$Ca(OH)_2$ cement
dental materials, salicylate, erosion processes; 795
Carbon
fluoridated apatite, magnesium, crystal structure; 831
Carbon composites
polymers, absorption; 424
Carbon-coating
biocompatibility, diamond-like coating; 37
Catheters
heparin, hydrogels, membranes; 63
grafted polymers, friction properties; 71
antineoplastic drugs, silicone, polyurethane; 741
Cell adhesion
surface analysis, polymers, surface treatment; 443
hyaluronic acid esters, biocompatibility, cell cultivation; 727
Cell cultivation
hyaluronic acid esters, biocompatibility, cell adhesion; 727
Cell growth
polydimethylsiloxane, silicones; 511
polymers, growth factors, surface treatment; 449
Cell adhesion
potential, graft polymerization; 786
Cell–biomaterial interactions
surface modification, bioactive materials; 187
Cell–material interactions
implants, wound healing; 25
peritoneum, CFRE composites; 231
peritoneum, macrophages; 111
Cell–material interface
leukotriene B4, interleukin 1, leucocytes; 827
Cell–surface interactions
polymers, surface texture; 385
Ceramic cement
phosphate glass, bone graft, calcium phosphate; 561
Ceramics
hydroxyapatite, bone; 411
dental materials, bioactive glass; 497
dental materials, implants, bioactive glass, biodegradation; 345
polarization, chemotaxis, complement activation; 661
CFRE composites
cell–material interactions, peritoneum; 231
Charged hydrogels
methacrylate–collagen(co)polymer hydrogels, intracerebral implantation, porosimetry, regeneration; 197
Chemotaxis
ceramics, polarization, complement activation; 661
Chitosan
tissue regeneration, angiogenesis; 287
hydroxyapatite, bone substitutes, dental materials; 41
wound dressing, tissue repair; 281
Coagulation
microencapsulation, agarose beads; 493
Coatings
calcium phosphate, titanium, composition; 461
Coextrusion
acrylate, encapsulation; 50

Collagen
dural substitutes, surgical implants; 320
elastin, peptides; 313
fibronectin, poly(vinyl alcohol), hydrogel; 747
biodegradation, transmission electron microscopy; 215
Collagenase
implants, disinfectants; 431
Complement
metals, neutrophils, immunoelectrophoresis, polarization; 607
Complement activation
ceramics, polarization, chemotaxis; 661
Complexation
microencapsulation, polymers; 374
microencapsulation, polymers; 479
Composites
titanium, calcium phosphate; 438
polyhydroxybutyrate, hydroxyapatite, bone response; 841
Composition
calcium phosphate, titanium, coatings; 461
Conductivity
kidney stones, annealing; 518
Constant release
adriamycin poly(L-lactic acid), microsphere, drug delivery system; 757
Contact angle
bacterial adhesion, poly(methacrylates), zeta potential; 853
Contact lenses
hydrogels, protein coating, polymers; 267
Controlled release
fibroblasts, heparin; 619
Controlled release glass
drug delivery, silver ions, urinary tract infection; 76
Copoly(MMA-DMAA)
swelling, pH-sensitivity, hydrogels; 836
Copolymers
fibrin, poly(methylacrylic acid), poly(ethylene oxide), grafting; 356
polyphosphazenes, grafting, heparin, biocompatibility; 275
biodegradation, polymerization, drug delivery; 433
Corrosion
SEM, prostheses; 417
titanium alloy, surface engineering, tribology, fatigue; 125
hydroxyapatite, titanium; 205
surgical alloys, stress; 627
Corrosion resistance
novel alloys, wear resistance, rapidly quenching materials; 95
Crystal structure
fluoridated apatite, magnesium, carbon; 831
Crystallinity
hydroxyapatites, fluoride, organic phosphate ester; 46
Curing
cytotoxicity, dental composites, filler; 737
Cytotoxicity
dental material, porosity; 17
membrane permeability, fluorescent probe response; 722
dental composites, filler, curing; 737
Dental composites
cytotoxicity, filler, curing; 737
Dental implant
interface, vibration; 555
Dental materials
bioactive glass, ceramics; 497
methacrylates, polymers; 406
mechanical properties, polyethylene; 13
hydroxyapatite, bone substitutes, chitosan; 41
porosity, cytotoxicity; 17
PMMA, titanium, inmplant fixation; 474
methacrylates, polymerization; 653
methacrylates, mechanical properties; 645
$Ca(OH)_2$ cement, salicylate, erosion processes; 795
implants, ceramics, bioactive glass, biodegradation; 345
methacrylates, polymerization; 649
Derivated dextran
enzymatic degradation, immunogenicity; 550
Diamond-like coating
biocompatibility, carbon-coating; 37
Disinfectants
implants, collagenase; 431
Drug delivery
biocompatibility, polyurethanes; 701
biodegration; 640
implants, insulin, biodegradation; 57
controlled release glass, silver ions, urinary tract infection; 76
hydrogel, xanthan, theophylline; 821
biodegradation, copolymers, polymerization; 433
microspheres, phagocytosis, 695
adriamycin, poly(L-lactic acid), microsphere, constant release' 757
Dural substitutes
collagen, surgical implants; 320
Elastin
collagen, peptides; 313
fibrin, protease inhibitors, antibiotics; 763
Encapsulation
urokinase, immobilization, p(HEMA); 545
acrylate, coextrusion; 50
Enzymatic degradation
derivated dextran, immunogenicity; 550
Erosion processes
dental materials, $Ca(OH)_2$ cement, salicylate; 795
Ethyl acrylate
residual monomers, methyl acrylate, extraction; 540
Extraction
residual monomers, methyl acrylate, ethyl acrylate; 540
Fatigue
titanium alloy, surface engineering, tribology, corrosion; 125
Fibre reinforced composites
polyethylene, surface treatment; 83
Fibrin
poly(methylacrylic acid), poly(ethylene oxide), grafting, copolymers; 356
elastin, protease inhibitors, antibiotics; 763
Fibrinogen
fibronectin, platelet adhesion; 597
Fibroblast
PTFE, particles, macrophage; 780
Fibroblasts
hydroxyapatite, biocompatibility, particle size; 574
alumina, biocompatibility, osteoblasts; 690
osteoblasts, mechanical loading, joint prosthesis; 101
controlled release, heparin; 619
Fibronectin
perfluorosulphonate, Nafion, vibronectin; 531
collagen, poly(vinyl alcohol), hydrogel; 747
fibrinogen, platelet adhesion; 597
Filler
cytotoxicity, dental composites, curing; 737
Fluorescent probe response
membrane permeability, cytotoxicity; 722
Fluoridated apatite
magnesium, carbon, crystal structure; 831
Fluoride
hydroxyapatites, organic phosphate ester, crystallinity; 46
Fluoro-alumino-silicate
bone cement, glass-ionomer, glass-ceramic; 164
Fracture fixation
Implants, biodegradation; 32
Friction measurement
orthopaedic implants, titanium alloys, wear, ion implantation; 139
Friction properties
catheters, grafted polymers; 71
Gas plasma
polytetrafluorethylene, human endothelial cells; 130
Glass ionomer cement
mechanical properties, time dependence; 658
Glass-ceramic
bone cement, glass-ionomer, fluoro-alumino-silicate; 164
bone, material response, host response; 865
Glass-ionomer
bone cement, glass-ceramic, fluoro-alumino-silicate; 164
Glass-ionomer cements
biocompatibility, bone, osteoblasts; 179
Glassfibre
biocompatible glasses, biomaterials, biodegradability; 565
Glutaraldehyde
tendons, xenografts, autografts, mechanical properties; 577
goniophotometry
PHB, polymer degradation, surface morphology; 210
Graft polymerization
cell adhesion, potential; 786
Grafted polymers
catheters, friction properties; 71
blood-polymer interactions, poly-etherurethanes; 3
Grafting
fibrin, poly(methylacrylic acid), poly(ethylene oxide), copolymers; 356
poly(vinyl chloride), radiation; 489
polyphosphazenes, copolymers, heparin, biocompatibility; 275
polyurethanes, blood-material interactions; 668
Growth factors
cell growth, polymers, surface treatment; 449
Guidance channel
nerve regeneration, piezoelectric polymer, sciatic nerve; 775
Heart valve prosthesis
calcification, tissue morbidity; 817
Heart valves
prosthesss, calcification; 249
Heparin
hydrogels, membranes, catheters; 63
polyetherurethanes, antithrombogenicity, platelets; 390
polyphosphazenes, grafting, copolymers, biocompatibility; 275
controlled release, fibroblasts; 619
Host response
bone, glass-ceramic, material response; 865
Human endothelial cells
polytetrafluorethylene, gas plasma; 130
Hyaluronic acid esters
biocompatibility, cell adhesion, cell cultivation; 727
Hydrogel
collagen, fibronectin, poly(vinyl alcohol); 747
polyurethaneurea, blood interactions; 119
drug delivery, xanthan, theophylline; 821
heparin, membranes, catheters; 63
protein coating, contact lenses, polymers; 267
polymer composites, silicone rubber; 848
site-specific drug delivery, *N*-substituted (meth)acrylamides, azoaromatic cross-links, pH-dependent swelling, 584
copoly(MMA-DMAA), swelling, pH-sensitivity; 836

Hydroxyapatite
biocompatibility, particle size, fibroblasts; 574
bone, ceramics; 411
bone substitutes, dental materials, chitosan; 41
osteoblasts; 752
titanium, corrosion; 205
titanium, bone; 225
bone cement, bone, prostheses; 171
polyhydroxybutyrate, composites, bone response; 841
fluoride, organic phosphate ester, crystallinity; 46
Image analysis
polymeric biomaterials, macrophage, leucocyte; 731
Immobilization
urokinase, p(HEMA), encapsulation; 545
Immunoelectrophoresis
complement, metals, neutrophils, polarization; 607
Immunogenicity
derivated dextran, enzymatic degradation; 550
Implant
meniscus, repair, polyurethane; 810
Implant fixation
dental materials, PMMA, titanium; 474
Implants
titanium, biocompatibility; 470
biodegradation, fracture fixation; 32
wound healing, cell–material interactions; 25
microstructure, p(HEMA)–collagen composites; 454
insulin, drug delivery, biodegradation; 57
dental materials, ceramics, bioactive glass, biodegradation; 345
biosensors, membranes, polymers; 361
disinfectants, collagenase; 431
Inflammation
polyhydroxybutyrate, rats; 309
Insulin
implants, drug delivery, biodegradation; 57
Interface
dental implant, vibration; 555
titanium, protein adsorption; 593
Interleukin 1
leukotriene B_4, cell-material interface, leucocytes; 827
Intracerebral implantation
methacrylate–collagen(co)polymer hydrogels, charged hydrogels, porosimetry, regeneration; 197
Intraocular lenses
silicones, poly(dimethylsiloxane), plasma treatment, surface modification; 521
Ion implantation
orthopaedic implants, titanium alloys, friction measurement, wear; 139
Joint prosthesis
osteoblasts, fibroblasts, mechanical loading; 101
Kidney Stones
conductivity, annealing; 518
Leucocyte
image analysis, polymeric biomaterials, macrophage; 731
Leucocytes
leukotriene B_4, interleukin 1, cell–material interface; 827
Leukotriene B_4
interleukin 1, cell–material interface, leucocytes; 827
Lipids
bioprostheses, calcification, proteoglycans; 683
Liposome
PEG, aggregation, artificial erythrocyte; 861
Loosening
prostheses, bone cement, polyethylene; 194
Macrophage
PTFE, particles, fibroblast; 780
image analysis, polymeric biomaterials, leucocyte; 731
Macrophages
cell–material interactions, peritoneum; 111
Magnesium
fluoridated apatite, carbon, crystal structure; 831
Material response
bone, glass–ceramic, host response; 865
Maxillofacial surgery
wettability, prostheses, polydimethylsiloxane; 79
Mechanical loading
osteoblasts, fibroblasts, joint prosthesis; 101
Mechanical properties
PTFE, tissue patch; 22
dental materials, polyethylene; 13
dental materials, methacrylates; 645
glass–ionomer cement, time dependence, 658
tendons, xenografts, autografts, glutaraldehyde; 577
polymers, biodegradation, thermal analysis; 292
Membrane permeability
cytotoxicity, fluorescent probe response; 722
Membranes
heparin, hydrogels, catheters; 63
protein adsorption, polymers, blood; 369
biosensors, polymers, implants; 361
Meniscus
repair, implant, polyurethane; 810
Metals
complement, neutrophils, immuno-electrophoresis, polarization; 607
Methacrylate–collagen(co)polymer hydrogels
charged hydrogels, intracerebral implantation, porosimetry, regeneration; 197
Methacrylates
dental materials, polymers; 406
dental materials, polymerization; 649, 653
dental materials, mechanical properties; 645
Methyl acrylate
residual monomers, ethyl acrylate, extraction; 540
Microencapsulation
coagulation, agarose beads; 493
polymers, complexation; 374, 479
Microsphere
adriamycin, poly(L-lactic acid), drug delivery system, constant release; 757
Microspheres
drug delivery, phagocytosis; 695
Microstructure
p(HEMA)-collagen composites, implants; 454
N-substituted (meth)acrylamides
site-specific drug delivery, hydrogels, azoaromatic cross-links, pH-dependent swelling; 584
Nafion
perfluorosulphonate, vibronectin, fibronectin; 531
Nerve regeneration
surface modification, wettability; 259
piezoelectric polymer, guidance channel, sciatic nerve; 775
Neutrophils
complement, metals, immunoelectrophoresis, polarization; 607
Novel alloys
corrosion resistance, wear resistance, rapidly quenching materials; 95
Organic phosphate ester
hydroxyapatites, fluoride, crystallinity; 46
Orthopaedic implants
titanium alloys, friction measurement, wear, ion implantation; 139
Osteoblasts
alumina, biocompatibility, fibroblasts; 690
hydroxyapatite; 752
fibroblasts, mechanical loading, joint prosthesis; 101
biocompatibility, bone, glass–ionomer cements; 179
Osteogenesis
bone formation, rat marrow cells, calcium phosphate ceramics; 253
PEG
liposome, aggregation, artificial erythrocyte; 861
p(HEMA)
urokinase, immobilization, encapsulation; 545
p(HEMA)–collagen composites
microstructure, implants; 454
pH-dependent swelling
site-specific drug delivery, hydrogels, *N*-substituted (meth)acrylamides, azoaromatic cross-links; 584
pH-sensitivity
copoly(MMA-DMAA), swelling, hydrogels; 836
Particle size
hydroxyapatite, biocompatibility, fibroblasts; 574
particles
PTFE, fibroblast, macrophage; 780
Peptides
collagen, elastin; 313
Perfluorosulphonate
Nafion, vibronectin, fibronectin; 531
Peritoneum
cell–material interactions, CFRE composites; 231
cell–material interactions, macrophages; 111
Phagocytosis
drug delivery, microspheres; 695
PHB
polymer degradation, goniophotometry, surface morphology; 210
Phosphate glass
ceramic cement, bone graft, calcium phosphate; 561
Piezoelectric polymer
nerve regeneration, guidance channel, sciatic nerve; 775
Plasma treatment
intraocular lenses, silicones, poly(dimethylsiloxane), surface modification; 521
Platelet adhesion
fibrinogen, fibronectin; 597
Platelets
heparin, polyetherurethanes, antithrombogenicity; 390
PMMA
dental materials, titanium, implant fixation; 474
Polarization
complement, metals, neutrophils, immuno-electrophoresis; 607
ceramics, chemotaxis, complement activation; 661
Poly (L-lactic acid)
poly (γ-benzyl L-glutamate), biodegradation, surface treatments; 677
Poly (γ-benzyl L-glutamate)
poly (L-lactic acid) biodegradation, surface treatments; 677
Poly (L-lactic acid)
adriamycin, microsphere, drug delivery system, constant release; 757
Poly(dimethylsiloxane)
silicones, cell growth; 511
intraocular lenses, silicones, plasma treatment, surface modification; 521
Poly(ethylene oxide)
fibrin, poly(methlacrylic acid), grafting, copolymers; 356

Poly(methacrylates)
bacterial adhesion, contact angle, zeta potential; 853
Poly(methylacrylic acid)
fibrin, poly(ethylene oxide), grafting, copolymers; 356
Poly(vinyl alcohol)
collagen, fibronectin, hydrogel; 747
Poly(vinyl chloride)
grafting, radiation; 489
Polyacrylic–polyester composites
bone fixation; 236
Polydimethylsiloxane
wettability, prostheses, maxillofacial surgery; 79
Polyester
blood, vascular prostheses; 335
Polyesters
X-ray photoelectron spectroscopy, surface characterization; 305
Polyetherurethanes
heparin, antithrombogenicity, platelets; 390
blood–polymer interactions, grafted polymers; 3
Polyethylene
dental materials, mechanical properties; 13
surface treatment, fibre reinforced composites; 83
prostheses, bone cement, loosening; 194
Polyethylene oxide
blood–polymer interactions, surface treatment; 144
Polyglactin mesh
skin-substitute, polyglycolic acid mesh; 243
Polyglycolic acid mesh
skin-substitute, polyglactin mesh; 243
Polyhydroxybutyrate
hydroxyapatite, composites, bone response; 841
rats, inflammation; 309
Polymer composites
silicone rubber, hydrogels; 848
Polymer degradation
PHB, goniophotometry, surface morphology; 210
Polymeric biomaterials
image analysis, macrophage, leucocyte; 731
Polymerization
dental materials, methacrylates; 653
biodegradation, copolymers, drug delivery; 433
dental materials, methacrylates; 649
Polymers
dental materials, methacrylates; 406
hydrogels, protein coating, contact lenses; 267
biodegradation, mechanical properties, thermal analysis; 292
microencapsulation, complexation; 374
surface texture, cell–surface interactions; 385
carbon composites, absorption; 424
protein adsorption, membranes, blood; 369
microencapsulation, complexation; 479
calcification, polyurethane, prostheses; 397
biosensors, membranes, implants; 361
surface analysis, cell adhesion, surface treatment; 443
cell growth, growth factors, surface treatment; 449
prostheses, calcification; 707
spin-labelled ligands; 715
Polyphosphazenes
grafting, copolymers, heparin, biocompatibility; 275
Polytetrafluorethylene
human endothelial cells, gas plasma; 130
Polyurethane
biocompatibility, drug delivery; 701
blood compatibility, blood–polymer interactions; 324
blood-material interactions, grafting; 668
catheters, antineoplastic drugs, silicone; 741
meniscus, repair, implant; 810
calcification, polymers, prostheses; 397
Polyurethaneurea
hydrogel, blood interactions; 119
Porosimetry
methacrylate–collagen(co)polymer hydrogels, charged hydrogels, intracerebral implantation, regeneration; 197
Porosity
dental materials, cytotoxicity; 17
Potential
cell adhesion, graft polymerization; 786
Prostheses
corrosion, SEM; 417
wettability, maxillofacial surgery, polydimethylsiloxane; 79
boen cement, polyethylene, loosening; 194
hydroxyapatite, bone cement, bone; 171
calcification, polymers, polyurethane; 397
heart valves, calcification; 249
calcification, polymers; 707
Prosthesis
ADPase coating, thrombogenicity; 603
Protease inhibitors
elastin, fibrin, antibiotics; 763
Protein adsorption
titanium, interface; 593
membranes, polymers, blood; 369
Protein coating
hydrogels, contact lenses, polymers; 267
Proteoglycans
bioprostheses, calcification, lipids; 683
PTFE
tissue patch, mechanical properties; 22
particles, fibroblast, macrophage; 780
Radiation
grafting, poly(vinyl chloride); 489
Rapidly quenching materials
novel alloys, corrosion resistance, wear resistance; 95
Rat marrow cells
osteogenesis, bone formation, calcium phosphate ceramics; 253
Rats
polyhydroxybutyrate, inflammation; 309
Regeneration
methacrylate–collagen (co) polymer hydrogels, charged hydrogels, intracerebral implantation, porosimetry; 197
Repair
meniscus, implant, polyurethane; 810
Residual monomers
methyl acrylate, ethyl acrylate, extraction; 540
Resorbable material
bone cements, calcium phosphates; 505
Salicylate
dental materials, $Ca(OH)_2$ cement, erosion processes; 795
Sciatic nerve
nerve regeneration, piezoelectric polymer, guidance channel; 775
SEM
corrosion, prostheses; 417
Silicone
catheters, antineoplastic drugs, polyurethane; 741
Silicone rubber
polymer composites, hydrogels; 848
Silicones
Intraocular lenses, poly(dimethylsiloxane), plasma treatment, surface modification, 521
polydimethylsiloxane, cell growth; 511
Silver ions
drug delivery, controlled release glass, urinary tract infection; 76
Site-specific drug delivery
hydrogels, *N*-substituted (meth)acrylamides, azoaromatic cross-links, pH-dependent swelling; 584
Skin-substitute
polyglycolic acid mesh, polyglactin mesh; 243
Spin-labelled ligands
polymers; 715
Stress
corrosion, surgical alloys; 627
Surface treatment
cell growth, polymers, growth factors; 449
Surface analysis
cell adhesion, polymers, surface treatment; 443
Surface characterization
X-ray photoelectron spectroscopy, polyesters; 305
Surface engineering
titanium alloy, tribology, corrosion, fatigue; 125
Surface film
calcium phosphate, titanium, biocompatibility; 767
Surface modification
intraocular lenses, silicones, poly(dimethylsiloxane), plasma treatment; 521
nerve regeneration, wettability; 259
cell–biomaterial interactions, bioactive materials; 187
Surface morphology
PHB, polymer degradation, goniophotometry; 210
Surface texture
polymers, cell–surface interactions; 385
Surface treatment
polyethylene, fibre reinforced composites; 83
blood–polymer interactions, polyethylene oxide; 144
surface analysis, cell adhesion, polymers; 443
poly (L-lactic acid), poly (γ-benzyl L-glutamate), biodegradation; 677
Surgical alloys
corrosion, stress; 627
Surgical implants
dural substitues, collagen; 320
Swelling
copoly(MMA-DMAA), pH-sensitivity, hydrogels; 836
Tendons
xenografts, autografts, mechanical properties, glutaraldehyde; 577
Theophylline
drug delivery, hydrogel, xanthan; 821
Thermal analysis
polymers, biodegradation, mechanical properties; 292
Thrombogenicity
ADPase coating, prosthesis; 603
Time dependence
glass–ionomer cement, mechanical properties; 658
Tissue morbidity
calcification, heart valve prosthesis; 817
Tissue patch
PTFE, mechanical properties; 22
Tissue regeneration
chitosan, angiogenesis; 287
Tissue repair
chitosan, wound dressing s; 281
Titanium alloy
surface engineering, tribology, corrosion, fatigue; 125
Titanium
implants, biocompatibility; 470
dental materials, PMMA, implant fixation; 474
interface, protein adsorption; 593
hydroxyapatite, corrosion; 205
hydroxyapatite, oone; 225

calcium phosphate, coatings, composition; 461
calcium phosphate, composites; 438
surface film, calcium phosphate, biocompatibility; 767
Titanium alloys
orthopaedic implants, friction measurement, wear, ion implantation; 139
Transmission electron microscopy
collagen, biodegradation; 215
Tribology
titanium alloy, surface engineering, corrosion, fatigue; 125
Urinary tract infection
drug delivery, controlled release glass, silver ions; 76
Urokinase
immobilization, p(HEMA), encapsulation; 545
Vascular prostheses
polyester, blood; 335
Vibration
dental implant, interface; 555
Vibronectin
perfluorosulphonate, Nafion, fibronectin; 531
Wear
orthopaedic implants, titanium alloys, friction measurement, ion implantation; 139
Wear resistance
novel alloys, corrosion resistance, rapidly quenching materials; 95
Wettability
prostheses, maxillofacial surgery, polydimethylsiloxane; 79
nerve regeneration, surface modification; 259
Wound dressings
chitosan, tissue repair; 281
Wound healing
implants, cell-material interations; 25
X-ray photoelectron spectroscopy
polyesters, surface characterization; 305
Xanthan
drug delivery, hydrogel, theophylline; 821
Xenografts
tendons, autografts, mechanical properties, glutaraldehyde; 577
Zeta potential
bacterial adhesion, poly(methacrylates), contact angle; 853